



IECEX Certificate of Conformity

INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC Certification System for Explosive Atmospheres

for rules and details of the IECEx Scheme visit www.iecex.com

Certificate No.: **IECEX ITS 18.0030X** Page 1 of 4 [Certificate history:](#)
Issue 0 (2018-07-25)

Status: **Current** Issue No: 1

Date of Issue: 2023-01-12

Applicant: **Bayco Products, Inc.**
640 S. Sanden Blvd., Wylie, TX 75098
United States of America

Equipment: **Portable LED Flashlight Headlamp - Type XPP-5454G and XPP-5454GC**

Optional accessory:

Type of Protection: **Intrinsic Safety "i", Optical Radiation "op is"**

Marking: **Ex ia op is IIC T3 Ga**
IECEX ITS 18.0030X

Approved for issue on behalf of the IECEx
Certification Body:

Mark Newman


Position:

Certificate Officer

Signature:
(for printed version)

Date:

Date:
(for printed version)

 2023.01.12
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ITS House, Cleeve Road
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Surrey, KT22 7SA
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Manufacturer: **Bayco Products, Inc.**
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United States of America

Manufacturing locations: **Bayco Products, Inc.**
640 S. Sanden Blvd., Wylie, TX 75098
United States of America

This certificate is issued as verification that a sample(s), representative of production, was assessed and tested and found to comply with the IEC Standard list below and that the manufacturer's quality system, relating to the Ex products covered by this certificate, was assessed and found to comply with the IECEx Quality system requirements. This certificate is granted subject to the conditions as set out in IECEx Scheme Rules, IECEx 02 and Operational Documents as amended

STANDARDS :

The equipment and any acceptable variations to it specified in the schedule of this certificate and the identified documents, was found to comply with the following standards

[IEC 60079-0:2017](#) Explosive atmospheres - Part 0: Equipment - General requirements
Edition:7.0

[IEC 60079-11:2011](#) Explosive atmospheres - Part 11: Equipment protection by intrinsic safety "i"
Edition:6.0

[IEC 60079-28:2015](#) Explosive atmospheres - Part 28: Protection of equipment and transmission systems using optical radiation
Edition:2

This Certificate **does not** indicate compliance with safety and performance requirements other than those expressly included in the Standards listed above.

TEST & ASSESSMENT REPORTS:

A sample(s) of the equipment listed has successfully met the examination and test requirements as recorded in:

Test Report:

[GB/ITS/ExTR22.0032/00](#)

Quality Assessment Report:

[GB/ITS/QAR13.0005/09](#)



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EQUIPMENT:

Equipment and systems covered by this Certificate are as follows:

The product covered by this report is a portable LED flashlight headlamp. It consists of a flashlight and a floodlight. The user can operate either light independent of the other so that the user has the appropriate pattern of light for whatever the task at hand is. Both lights cannot be turned on simultaneously. The Nightstick headlamp is powered by three AAA alkaline batteries of 1.5V each. Batteries are connected in series and are the only source of power to the headlamp. The headlamp assembly is mechanically locked via a cover locking screw.

Powered via three AAA/Alkaline batteries in series, types Energizer E92 or EN92 with ratings: 1.5Vnom and field-replaceable in areas known to be non-hazardous only. Battery compartment accessible with screw driver.

Model XPP-5454GC has metal clip fitted to rear of enclosure. There is no change in electrical circuit or batteries used on XPP-5454GC.

SPECIFIC CONDITIONS OF USE: YES as shown below:

- XPP-5454 to be used only with three AAA batteries in series, types Energizer E92 or EN92.
- For XPP-5454GC; the capacitance measured on clip on back side of enclosure, being 3.8pF; exceeds limit of 3pF for Group IIC. The user shall determine the suitability of the equipment in the end application.
- See Instruction Manual for Warnings and approved batteries.



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DETAILS OF CERTIFICATE CHANGES (for issues 1 and above)

- Alternate LED model GW PUSRA1.PM-N4N6-XX51-1-700-R18 (could be N3N5 instead of N4N6 as the difference is in the Luminous Flux) has been added.
- Update polymer from RTP 2599 X 123981 to RTP 2599 X 133889,
- Standard IEC 60079-0:2011 has been updated to IEC 60079-0:2017.

Annex:

[Annex for IECEx Certificate of Conformity - IECEx ITS 18.0030X_1.pdf](#)



Annex to IECEx Certificate of Conformity

Certificate No:	IECEX ITS 18.0030X	Issue No. 1
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Technical Documents			
Title:	Drawing No.:	Rev. Level:	Date:
*Top Level Design File	5454-GENL-DWG1-00	J	10/01/19
*Certification Master Design File 01 of 02 (total 1 page)	5454-CERT-DWG1-01	J	10/01/19
*XPR-5454 FLASHLIGHT	5454-CERT-DWG1-02	J	12/13/2022
*Electrical Master Design File	5454-ELEC-DWG1-01	J	10/01/19
*Electrical Top Level Elec Schematic	5454-ELEC-DWG1-02	J	10/01/19
*Electrical Switch Elec Schematic	5454-ELEC-DWG1-03	J	10/01/19
*Electrical Spot Elec Schematic	5454-ELEC-DWG1-04	J	10/01/19
*Electrical Flood Elec Schematic	5454-ELEC-DWG1-05	J	10/01/19
*Electrical Bill of Materials	5454-ELEC-DWG1-06	J	10/01/19
*Electrical Switch PCB Layout	5454-ELEC-DWG1-07	J	10/01/19
*Electrical Spot PCB Layout	5454-ELEC-DWG1-08	J	10/01/19
*Electrical Flood PCB Layout	5454-ELEC-DWG1-09	J	10/01/19
*Electrical Flood Top/Bottom Metal	5454-ELEC-DWG1-10	J	10/01/19
*Electrical Main Top/Bottom Metal	5454-ELEC-DWG1-11	J	10/01/19
*Electrical Switch Top/Bottom Metal	5454-ELEC-DWG1-12	J	10/01/19
*Electrical Specification, Encapsulate	5454-ELEC-DWG1-13	J	10/01/19
*Electrical BOM	5454-ELEC-DWG1-14	J	10/01/19
Mechanical Master Design File	5454-MECH-DWG1-01	I	05/14/18
Mechanical General Assembly – Exploded View	5454-MECH-DWG1-02	I	05/14/18
Mechanical General Assembly – Layout	5454-MECH-DWG1-03	I	05/14/18
Mechanical Sections	5454-MECH-DWG1-04	I	05/14/18
Mechanical Potting Dam Detail - Fuse	5454-MECH-DWG1-05	I	05/14/18
Mechanical Potting Dam Detail - Resistor	5454-MECH-DWG1-06	I	05/14/18
Mechanical Specification, Plastic	5454-MECH-DWG1-07	I	05/14/18
Mechanical Specification, Gasket/ O-Ring	5454-MECH-DWG1-08	I	05/14/18
*Instruction Manual XPP-5454GC	INS-XPP-5454GC-LG-22	--	09-08-2022
*Instruction Manual XPP-5454G	INS-XPP-5454G-LG-22	--	09-08-2022

*Note: An * is included before the title of documents that are new or revised.*



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IECEX Certified Components on Which Conformance Depends
NA

Required Manufacturer Routine Testing
NA